

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
10 March 2005 (10.03.2005)

PCT

(10) International Publication Number
WO 2005/022126 A1

(51) International Patent Classification⁷: **G01N 15/12**

(21) International Application Number:
PCT/DK2004/000568

(22) International Filing Date: 27 August 2004 (27.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2003 01257 2 September 2003 (02.09.2003) DK

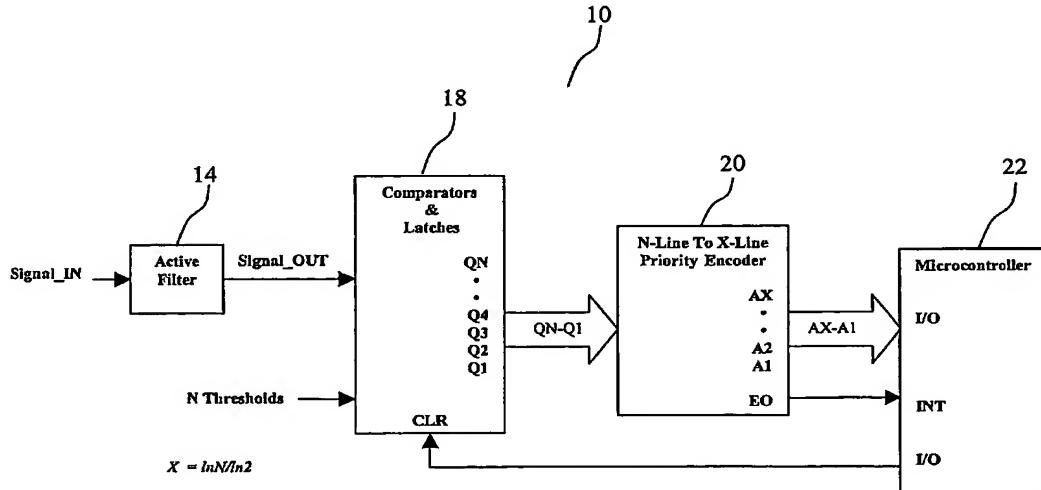
(71) Applicant (for all designated States except US):
CHEMPAQ A/S [DK/DK]; Symbion Science Park, Fruebjergvej 3, Box 38, DK-2100 Copenhagen Ø (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PETERSEN, Freddy** [DK/DK]; Dragevej 6, DK-4040 Jyllinge (DK). **MIKKELSEN, Rune, Funder** [DK/DK]; J.E. Pitzenersvej 49, DK-2730 Herlev (DK). **WILSBECH, Morten** [DK/DK]; Skovledet 25, DK-3400 Hillerød (DK).

(74) Agent: **ALBIHNS A/S**; H.C. Andersens Boulevard 49, DK-1553 Copenhagen V (DK).

(54) Title: A PULSE HEIGHT ANALYSER



(57) **Abstract:** The present invention relates to a pulse height analyser for determination of the pulse height distribution of electronic pulses comprising a set of comparators with a common input for analogue to digital conversion of the electronic pulses, a set of latches wherein the inputs of the latches are connected to the outputs of respective comparators for recording passage of the corresponding threshold voltages by the rising edge of a pulse, a priority encoder connected to the latch outputs for determination of a pulse height category consisting of pulses with a pulse height within a pulse height interval defined by respective threshold voltages, and a micro controller that is adapted to count the number of pulses within each pulse height category.

WO 2005/022126 A1